



## How to hook up your new PRO3S Controller



1. Prior to connecting to the controller, check all your circuits for possible shorts or overload (too many lamps). The maximum load per circuit is 1000 Watts or 8 Amps. However, it is recommended not to fully load the controller. Try and keep your loading at 900 Watts or less per circuit (3600 Watts total load).
2. Action Lighting uses the following wire color guideline. Although not required, it just makes it easier to keep track of the wires from your load (lighting):

### 5 Wires from Load:

White: Common  
 Red: Circuit #1  
 Brown: Circuit #2  
 Yellow: Circuit #3  
 Blue : Circuit #4

### 3 Wires from 120v Source:

Black: 120v Hot Lead  
 White: Neutral Lead  
 Green: Chassis Ground

3. Disconnect your 120 Volt power source if you are hard wiring your controller, usually found at the breaker at your distribution panel.

#### 4. Wiring directions:

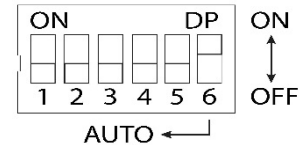
- a. From your 120 Volt source, connect the green wire to the terminal marked GND.
- b. From your 120 Volt source, connect the black wire (hot lead) to the terminal marked "+" 120V AC.
- c. From your 120 Volt source, connect the white wire (neutral lead) to the terminal marked "-" 120V AC.
- d. From your load (lighting) hook up the white wire (common) to the terminal marked "COM" TO CHASE LIGHTING.



- e. From your load (lighting) hook up the 4 hot leads (red-circuit 1, brown-circuit 2, yellow-circuit 3, and blue-circuit 4) to the appropriate terminal marked “1, 2, 3, and 4” TO CHASE LIGHTING.

**CAUTION: YOU MAY CAUSE A DIRECT SHORT IF LEADS ARE HOOKED UP INCORRECTLY.** Make sure if you are tying common leads together, that you tie into either the common terminal marked “COM” or the terminal marked “-”. **Note:** the “COM” and “-” terminals are tied together inside the controller, so it doesn’t matter which terminal you use.

- 5. Set your desired program setting (chase pattern) before turning on your power. Refer to The Program Setting Guide in the carton. Set the dip switches on the front of controller to the desired sequence.
- 6. Turn on your Power Source or plug in unit if you installed a power cord (120 Volt Source).



- a. Check that all lights are lighting and running (chasing) in the sequence that you have selected.
- b. Vary the speed control knob to change how fast or slow the lights are running. (Clockwise is faster and counter clockwise is slower).
- c. Model PRO3S also has knob marked “Sound”. To activate, turn knob clockwise until desired sensitivity is reached. The controller will respond to whatever sound that it hears. To turn the microphone off, turn the knob all the way counter clockwise.
- 7. If hooking up five wire - 4 circuit - chase belt-light (our part number **201BL-G4** or **201BL-G6**) continue, otherwise skip to Step #8.
  - a. First determine the direction of chase. This is done by looking at the contacts in the socket the direction of the chase. It will be either be a 1-2-3-4 sequence or 4-3-2-1 sequence.
  - b. The belt has four hot leads and a common, the common is always the center conductor. So the Belt’s five wires are from left to right or right to left depending on direction determined in step 7a. The five wires are hot lead circuit 1, hot lead circuit 2, common, hot lead circuit 3 and hot lead circuit 4.
  - c. Hook up the middle (center) conductor to the terminal marked “COM” TO CHASE LIGHTING.
  - d. Hook up the other four wires (hot leads) to the appropriate terminals marked “1, 2, 3, and 4” TO CHASE LIGHTING. Note: When system is activated and chases the wrong direction, reverse the hot leads.
- 8. Trouble Shooting
  - a. If one or more circuits do not light (all lamps on that circuit are Off), check and replace the corresponding Fuse. Replace with 10 Amp fuse. There is one fuse per circuit.
  - b. If sequence does not run properly, check and make sure that your lighting has been wired in the proper sequence and wires are hooked up to the proper terminals.
  - c. If one or more circuits stay On and do not Flash (all bulbs stay on and do not flash), contact Action Lighting at (800) 248-0076 for instructions.